

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P433592

Luminaire Tested: **LAMR4B108R659035DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-22)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B108R659035DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 792.7 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.97
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

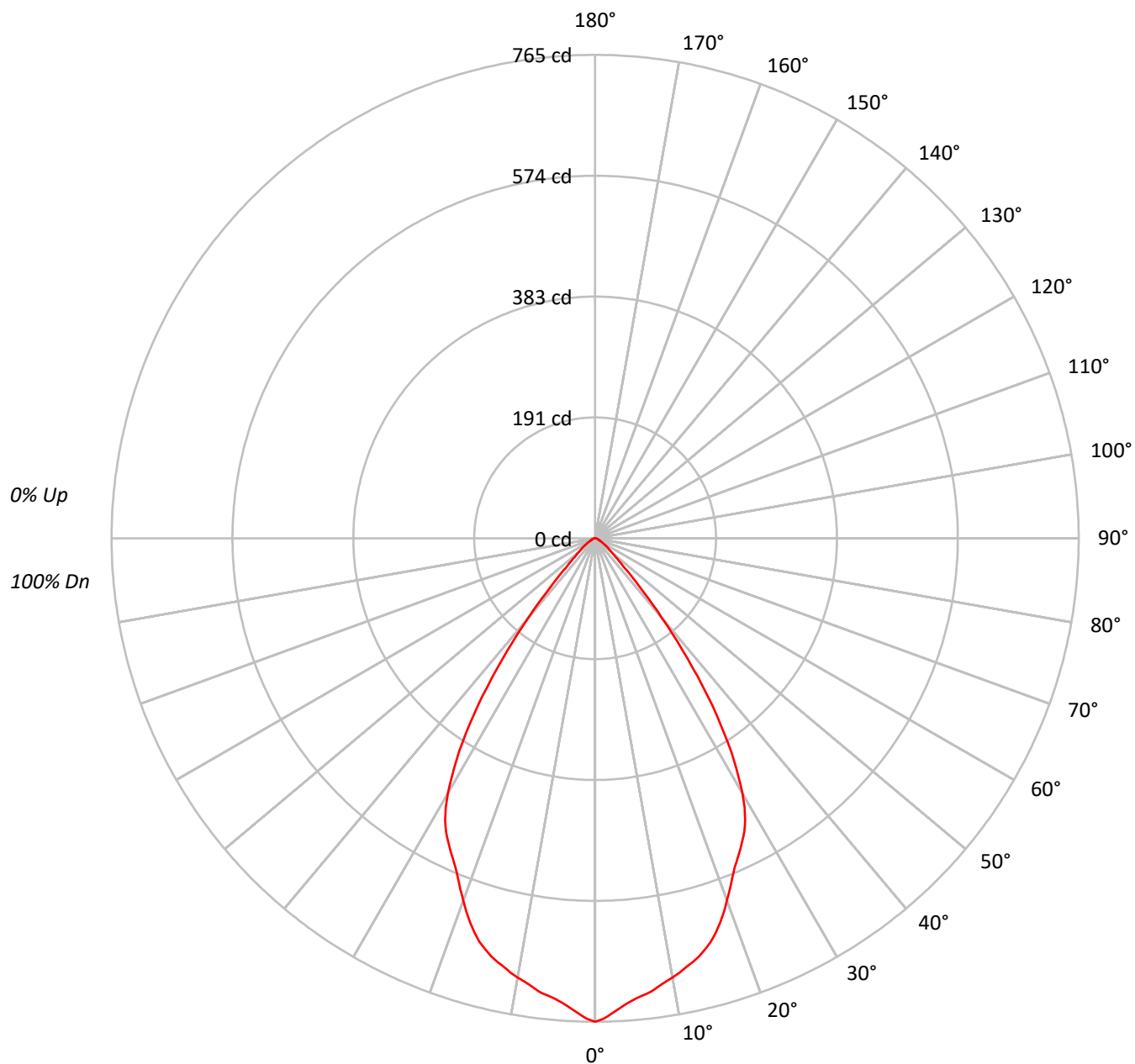
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	107	105	111	108	106	103	104	102	100		100	99	97		97
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	83		88	84	81		86
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80
5	90	82	75	71	89	81	75	70	79	74	70		77	73	69		75
6	85	76	70	65	84	75	69	65	74	68	64		72	68	64		71
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67
8	77	67	60	56	75	66	60	56	65	59	56		64	59	55		63
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59
10	69	59	53	49	68	58	53	49	58	52	48		57	52	48		56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	377485
5°	362236
10°	353699
15°	343809
20°	320172
25°	295709
30°	265483
35°	195026
40°	105304
45°	45284
50°	25253
55°	17634
60°	11348
65°	8639
70°	7068
75°	6291
80°	7103
85°	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.1	8.7
10°-20°	187.8	23.7
20°-30°	249.0	31.4
30°-40°	197.2	24.9
40°-50°	58.7	7.4
50°-60°	18.8	2.4
60°-70°	7.5	0.9
70°-80°	3.6	0.5
80°-90°	1.0	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	505.9	63.8
0°-40°	703.1	88.7
0°-60°	780.6	98.5
0°-90°	792.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	792.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	765	
5°	731	69
15°	673	188
25°	543	249
35°	324	197
45°	65	59
55°	20	19
65°	7	8
75°	3	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	765.1
1°	760.2
2°	752.8
3°	744.6
4°	737.2
5°	731.4
6°	727.3
7°	723.2
8°	716.7
9°	710.9
10°	706.0
11°	700.2
12°	693.6
13°	687.9
14°	681.3
15°	673.1
16°	664.1
17°	652.5
18°	639.4
19°	625.4
20°	609.8
21°	595.0
22°	579.4
23°	565.4
24°	553.9
25°	543.2
26°	531.7
27°	520.2
28°	505.4
29°	487.4
30°	466.0
32.5°	401.1
35°	323.8
37.5°	240.0
40°	163.5
42.5°	103.6
45°	64.9
47.5°	43.6
50°	32.9
52.5°	26.3
55°	20.5
57.5°	15.6
60°	11.5



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	5.8
70°	4.9
72.5°	4.1
75°	3.3
77.5°	2.5
80°	2.5
82.5°	1.6
85°	0.8
87.5°	0.0
90°	0.0



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— 0°-180°







62.5°	9.0
65°	7.4



(END OF REPORT)